

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/GB 03/03670

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C01B3/04 B01D53/047 B01D53/22 B01D53/86 C01B3/50  
C01B3/56

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 C01B B01D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, PAJ, INSPEC, COMPENDEX

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 0 687 494 A (JAPAN PIONICS) 20 December 1995 (1995-12-20) the whole document	1-13
Y	COLLINS J P ET AL: "Catalytic decomposition of ammonia in a membrane reactor" JOURNAL OF MEMBRANE SCIENCE, ELSEVIER SCIENTIFIC PUBL. COMPANY. AMSTERDAM, NL, vol. 96, no. 3, 12 December 1994 (1994-12-12), pages 259-274, XP004041525 ISSN: 0376-7388 abstract	1-13
X	US 6 331 281 B1 (TERU SUEHACHI ET AL) 18 December 2001 (2001-12-18) claims	1, 10
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

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- \*E\* earlier document but published on or after the international filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

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\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*&\* document member of the same patent family

Date of the actual completion of the international search

28 November 2003

Date of mailing of the international search report

05/12/2003

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 11, 3 January 2001 (2001-01-03) & JP 2000 233117 A (JAPAN PIONICS CO LTD), 29 August 2000 (2000-08-29) abstract	1,10
A	EP 0 624 392 A (JAPAN PIONICS) 17 November 1994 (1994-11-17) page 2, line 18 - line 31; claims; figures	1,10

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